We Claim:

- 1. A polyvinyl chloride (PVC) fiber for artificial hair having an arithmetic mean roughness Ra of 0.18-0.38μm and a maximum height Ry of 0.5-3.5μm along a longitudinal direction, specified by JIS B 0601, said PVC fiber being manufactured by melt spinning a PVC resin composition with a nozzle, wherein said nozzle has a nozzle hole having a diameter D and a land length L, and a nozzle leading portion having a cone angle, and wherein a ratio of L/D is 1-3, a height of the nozzle leading portion is at least 4mm, and the cone angle is 20°-90°.
- 2. The PVC fiber as claimed in claim 1 having a section specified by $(L*M_{max})/S$ of 4.2-7.0, wherein $M_{max}(mm)$ is the maximum line segment, $S(mm^2)$ is a sectional area, and L(mm) is a length of an outer circumference.
- 3. The PVC fiber as claimed in claim 1 or 2, wherein said PVC resin composition contains 100 parts by mass of a PVC resin, (a) 0.3-3.0 parts by mass of a higher fatty acid ester lubricant, (b) 0.3-1.5 parts by mass of a polyethylene lubricant, with a mixing ratio (a)/(b) of 0.5-4.
- 4. The PVC fiber as claimed in any one of claims 1-3, wherein said PVC resin composition contains 0.2-5.0 parts by mass of an inorganic thermal stabilizer selected from a hydrotalcite or zeolite.
- 5. A method of manufacturing a polyvinyl chloride (PVC) fiber for artificial hair, comprising the steps of:

melt spinning a PVC resin composition with a nozzle having a nozzle hole of a diameter D and a land length L, and a nozzle leading portion having a cone angle, wherein a ratio of L/D is 1-3, a height of the nozzle leading portion is at least 4mm, and the cone angle is 20°-90°; and

discharging the PVC resin composition with an amount of 65-165g/h per nozzle.

- 6. The method as claimed in claim 5, wherein said PVC resin composition contains 100 parts by mass of a PVC resin, (a) 0.3-3.0 parts by mass of a higher fatty acid ester lubricant, and (b) 0.3-1.5 parts by mass of a polyethylene lubricant, with a mixing ratio (a)/(b) of 0.5-4.
- 7. The method as claimed in claim 5 or 6, wherein said PVC resin composition contains 0.2-5.0 parts by mass of an inorganic thermal stabilizer selected from a hydrotalcite or zeolite.
- 8. The method as claimed in any one of claims 5-7, further comprising the step of discharging the PVC resin composition with an amount of 80-150g/h.
- 9. A melt spinning apparatus for manufacturing a polyvinyl chloride fiber for artificial hair, having a nozzle, said nozzle comprising:

a nozzle hole having a diameter D and a land length L; and a nozzle leading portion having a cone angle,

wherein a ratio of L/D is 1-3, a height of the nozzle leading portion is at least 4mm, and the cone angle is 20°-90°.